

Mohammad Mahdi Mirrashid

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ML Scientist/Researcher

Education

B.Sc. in Electrical Engineering — Sharif University of Technology

Admitted to Computer Science AI specialization masters program at University of Tehran

- Received PhD offers from University of Waterloo (HCI) and Purdue University (Causal Machine Learning, Reinforcement Learning) [Mohammad Mahdi Mirrashid - Our People - Purdue Engineering](#)
 - Relevant Coursework: Algorithms and Data Structures, Statistical Learning, Optimization, High-Dimensional Probability, Information Theory, Communication Systems, Randomized Algorithms, Object-Oriented Programming, Systems Neuroscience
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Professional Experience

- **Machine Learning Researcher** – Sharif University (2021 – 2024)

Technical Research Collaborator

- Worked with researchers in leading global institutes on causal inference, deep learning, and large language models.

Teaching Assistant — Sharif University of Technology

- Taught and mentored graduate and undergraduate students in ML and software engineering.
 - Courses: Machine Learning, Generative Models, Privacy in Data Science, Object-Oriented Programming (Java), System 2 Reasoning.
 - Conducted hands-on tutorials and supported projects involving PyTorch, TensorFlow, and data processing pipelines.
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Technical Skills

Programming & Tools: Python, C++, C, Java, SQL

Machine Learning & AI: PyTorch, TensorFlow, scikit-learn, Data Science & Engineering:
Data cleaning, analysis, feature engineering, visualization, model deployment
Languages: Persian (Native), English (Fluent)

Selected Projects & Research Topics

- Graph Structural Distribution Shift Analysis
 - Differential Privacy
 - SVM Implementation from Scratch
 - Reinforcement Learning
 - Fundamental Limits of Causal Discovery
 - Federated Learning
 - Multi-Agent Reinforcement Learning
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Achievements

- National Mathematics Olympiad participant — strong foundation in combinatorics/number theory/geometry/analysis.
- Ranked top in Iran's nationwide university entrance exam.
- TOEFL score 118/120 (2023)
- PhD offers from top North American universities for research in causal ML and Reinforcement Learning